| Index of Claims       | Application/Control No. | Applicant(s)/Patent under Reexamination |
|-----------------------|-------------------------|---|
|                       | 10/601,195              | KIM ET AL.                              |
|                       | Examiner                | Art Unit                                |
|                       | Zeinab E. EL-Arini      | 1746                                    |
| √ Rejected (Through n |                         | Appeal                                  |

Restricted

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|       |          | L        | L               |  |                |              | J            |          |              |              |   |          |          |  |           |          |          | l        |              |          |          |          |   |                        |            |          |          |           |          |          |     |          | J        |   |
|-------|----------|----------|-----------------|--|----------------|--------------|--------------|----------|--------------|--------------|---|----------|----------|--|-----------|----------|----------|----------|--------------|----------|----------|----------|---|------------------------|------------|----------|----------|-----------|----------|----------|-----|----------|----------|---|
| Cla   | aim      | Г        |                 |  |                | Dat          | ρ.           |          | ,            |              | 1 | Cla      | aim      | Т  |           |          |          | Date     |              |          |          |          | 1 | CI                     | aim ·      |          |          |           | _        | ate      |     |          |          |   |
| Oie   |          | a        |                 | Г  | T              | T            | Ť            | Т        | Т            | Т            | 1 |          | T        | ╁  |           |          | ت        |          | _            |          |          | _        |   | - Oi                   |            | Т        | $\neg$   | Т         | Ť        |          |     |          |          |   |
| Final | Original | 8105     |                 |  |                |              |              |          |              |              |   | Final    | Original | į  |           |          |          |          |              |          |          |          |   | Final                  | Original   |          |          |           |          |          |     |          |          |   |
|       | 1        | N        |                 | <del>                                     </del> | $t^-$          | ╁            | +-           | +        | <del> </del> | ┢            | 1 | 1        | 51       | <del>                                     </del> |           | H        | $\dashv$ |          | $\dashv$     |          |          |          |   |                        | 101        | +        | $\dashv$ | $\dashv$  | $\dashv$ | _        | _   | -        | $\dashv$ |   |
|       | 2        | T        | Т               |  | $\vdash$       | $\vdash$     | T            | T        | 1            | $\vdash$     | 1 | _        | 52       | ┢  |           |          |          |          | $\neg$       |          |          |          | 1 |                        | 102        | $\dashv$ | $\dashv$ | 十         | _        |          |     |          | $\Box$   |   |
|       | 3        | 1        | Г               |  | 1              |              | Τ            |          | 1            |              | 1 | $\vdash$ | 53       | İ  | П         |          | $\neg$   |          |              |          | $\neg$   |          |   |                        | 103        | 寸        | 丁        | 寸         |          |          | _   |          | П        |   |
|       | 4        | Π.       |                 |  | Г              |              | $\top$       | Τ        | 1            |              | 1 |          | 54       | İ  |           |          |          |          |              |          |          |          |   |                        | 104        | $\dashv$ | 7        | 寸         | 寸        |          |     |          | $\Box$   |   |
|       | 5        | N        | Г               | Г  | $\vdash$       |              | T            | T        |              |              | 1 |          | 55       | İ  |           |          |          |          |              |          |          | -        |   |                        | 105        | $\dashv$ | ┪        | $\exists$ | 寸        |          |     |          | $\Box$   |   |
|       | 6        | 1        |                 |  | Π              |              |              |          |              |              | 1 |          | 56       | Π  |           |          |          |          |              |          |          |          |   |                        | 106        | $\neg$   | 丁        | T         |          |          |     |          |          |   |
|       | 7        | $\prod$  |                 |  |                |              |              | Т        |              |              | ] |          | 57       |  |           |          |          |          |              |          |          |          |   |                        | 107        | $\top$   | T        | T         |          |          |     |          | П        |   |
|       | 8        | П        |                 |  |                |              |              |          |              |              | ] |          | 58       |  |           |          |          |          |              |          |          |          |   |                        | 108        | $\Box$   | П        | T         |          |          |     |          |          |   |
|       | 9        |          |                 |  |                |              |              |          |              |              |   |          | 59       |  |           |          |          |          |              |          |          |          |   |                        | 109        |          |          | $\Box$    |          |          |     |          |          |   |
|       | 10       | 11       |                 | L  | L              | L            | _            | L        | $oxed{oxed}$ | L            | ] |          | 60       |  |           |          |          |          |              |          |          |          |   |                        | 110        |          |          |           |          |          |     |          |          |   |
|       | 11       | Щ        |                 |  | ┖              | ┖            | <u> </u>     | ┖        | ļ            | <u> </u>     | 1 |          | 61       | _  |           |          |          |          |              |          |          |          |   |                        | 111        |          | $\perp$  | $\perp$   |          |          |     |          |          |   |
|       | 12       | Ц.       | _               | 2  | ــــ           | ╀            | <del> </del> | 1_       | 1            | _            |   |          | 62       | <u> </u>   | Ш         |          | _        |          |              |          | _        |          |   |                        | 112        | $\perp$  | _        | $\perp$   | _[       |          |     | Ш        | ᆜ        |   |
|       | 13       | ₩        | $\vdash$        | $\vdash$   | ــ             | ↓_           | 1            | 4        | $\perp$      | ┞            | ļ |          | 63       | <u> </u>   | $\square$ |          | _        |          | _            | _        | _        |          |   |                        | 113        | _        | $\perp$  | _         |          |          |     | Щ        | ᆜ        |   |
|       | 14       | #        | <u> </u>        | <u> </u>   | 1              | 1            | <b>↓</b>     | ╀-       |              | ऻ_           | l | <u> </u> | 64       | <del> </del>                                     | Ш         |          | 4        |          |              |          |          |          |   |                        | 114        | $\dashv$ | $\dashv$ | $\dashv$  | 4        | _        |     | Ш        | Щ        |   |
|       | 15       | 1        | <u> </u>        | $\vdash$   | $\vdash$       | 1            | ╄            | +        | ╄-           | <del> </del> | - | <u> </u> | 65       | $\vdash$   | $\sqcup$  |          |          |          |              |          |          |          |   |                        | 115        | $\dashv$ | $\dashv$ | $\perp$   | $\dashv$ | _        |     |          |          |   |
|       | 16       | ₩        | -               |  | ├-             | ├            | ╄            | ╀        | -            | <u> </u>     | 1 |          | 66       | _  | $\vdash$  |          |          |          |              | -        |          |          |   |                        | 116        | 4        | -        | $\dashv$  | $\dashv$ | _        |     |          |          |   |
|       | 17       | 1        | _               | <u> </u>   | ⊢              | ⊢            | ╀            | $\vdash$ | -            |              | ł | <u> </u> | 67       | ┡  | Ш         |          |          |          |              | -        |          |          |   |                        | 117        | -        | 4        | 4         | $\dashv$ |          |     |          | $\vdash$ |   |
|       | 18       | 11       | $\vdash$        | ⊢  | ⊢              | ⊢            | ╀            | +        | ┼            | ⊢            | ł |          | 68       | ⊢  | -         |          |          |          |              |          | -        |          |   | <u> </u>               | 118        | +        | +        | $\dashv$  | -        | $\dashv$ | _   |          | $\dashv$ |   |
|       | 19       | +        |                 | -  | ⊢              | ┡            | ╄            | ╁        | -            | ├-           | ł |          | 69       | ┡  | $\square$ |          | $\dashv$ |          | -            |          | -        |          |   |                        | 119        | +        | +        | -         | +        | $\dashv$ |     |          | $\dashv$ |   |
|       | 20       | H        |                 |  | ⊢              | ⊬            | ╀            | +-       | -            | -            | ł | <u> </u> | 70       | ├-   | $\vdash$  | _        | $\dashv$ |          |              |          |          |          |   |                        | 120        | -        |          | $\dashv$  | $\dashv$ | _        |     | _        | -        |   |
|       | 21<br>22 | 11       | _               | ┝  | ╀              | ╁            | ┼            | ╁        | ╀            | -            | ł |          | 71<br>72 | ┢  | Н         |          |          | -        |              | -        |          |          |   |                        | 121        | -        | $\dashv$ | $\dashv$  | -        |          |     | $\vdash$ | $\dashv$ |   |
|       | 23       | H-       | $\vdash$        | H  | ╁              | ╁            | ╀            | ╁        | ╁            | ┢            | ł |          | 73       | ├  | Н         | -        | $\dashv$ | $\dashv$ | $\dashv$     | $\dashv$ | _        |          |   |                        | 122<br>123 | +        | $\dashv$ | ᅪ         | -        | 4        |     | -        | $\dashv$ |   |
|       | 24       | ╁        | -               | -  | ┢              | ┢            | ╀            | ╁        | ╁            | ┝            | 1 |          | 74       | ┢  | -         |          |          | $\dashv$ | $\dashv$     | $\dashv$ | $\dashv$ |          |   |                        | 124        | +        | +        | +         | $\dashv$ | $\dashv$ | _   | -        | $\dashv$ | _ |
|       | 25       | V        | $\vdash$        | -  | ╁              | H            | ╁╌           | ╁╴       | ╁            | ┢            | 1 | -        | 75       | ┢  | $\vdash$  | $\vdash$ | $\dashv$ | -        |              | $\dashv$ | -        | _        |   |                        | 125        | ┰        | ┰        | $\dashv$  | -        | $\dashv$ | _   |          | $\dashv$ |   |
|       | 26       | -        |                 | Н  |                |              | t            | +-       | 1            |              | ł | -        | 76       | ├─   | $\vdash$  |          | -        | $\dashv$ | $\dashv$     | $\dashv$ | $\dashv$ | _        |   |                        | 126        | +        | $\dashv$ | $\dashv$  | $\dashv$ | $\dashv$ |     | -        | $\dashv$ | _ |
|       | 27       | $\vdash$ | -               | Н  | ${}^{\dagger}$ |              | +            | +-       | $\vdash$     |              | 1 |          | 77       | H  |           |          |          | ᅱ        | 一            | $\dashv$ | $\dashv$ | -        |   |                        | 127        | $\dashv$ | +        | $\dashv$  | $\dashv$ | ᅥ        | H   |          | $\dashv$ | _ |
|       | 28       | ┢        |                 |  | H              | H            | ╁            | +        | +            | H            | 1 |          | 78       | ┢  |           | $\dashv$ |          | ┪        | ┪            | -        | $\dashv$ |          |   |                        | 128        | $\dashv$ | +        | $\dashv$  | -+       | -        | -   |          | $\dashv$ |   |
|       | 29       |          |                 |  | $\vdash$       | $\vdash$     |              | T        | $\vdash$     |              | 1 |          | 79       | Т  | $\Box$    |          |          | _        |              | _        | $\dashv$ |          |   |                        | 129        | 十        | 十        | 十         | 十        |          |     |          | $\neg$   | _ |
|       | 30       |          |                 |  | $\vdash$       | T            | ┰            | $\top$   | $\top$       |              |   |          | 80       |  |           |          |          | $\neg$   | 一            | 寸        | $\dashv$ |          |   |                        | 130        | 十        | 十        | 7         | $\dashv$ |          |     |          | $\dashv$ |   |
|       | 31       |          |                 |  |                | Τ            | T            | T        | 1            |              | 1 |          | 81       |  | П         | $\neg$   |          | $\dashv$ |              |          | $\neg$   |          | i |                        | 131        | 十        | 寸        | 7         | 十        |          | _   | Н        | $\neg$   |   |
|       | 32       |          |                 |  | Т              |              | Т            |          |              |              | İ |          | 82       |  |           |          |          |          | $\neg$       | _        | $\neg$   |          | i |                        | 132        | 寸        | $\top$   | T         | _        |          |     |          | $\neg$   | _ |
|       | 33       |          |                 |  |                | П            | Т            | 1        | Т            | Π            | 1 |          | 83       |  |           |          |          | $\neg$   |              |          |          |          |   |                        | 133        | $\top$   |          | $\neg$    | 寸        |          |     |          | $\neg$   |   |
|       | 34       |          |                 |  |                |              |              |          | $\Box$       |              | ] |          | 84       |  |           | $\Box$   | T        |          | $\neg$       |          |          |          |   |                        | 134        |          |          | T         | 丁        |          |     |          | $\neg$   |   |
|       | 35       |          |                 |  |                |              |              |          |              |              | ) |          | 85       |  |           |          |          |          |              |          |          |          |   |                        | 135        |          | T        | T         | $\neg$   |          |     |          | $\neg$   |   |
|       | 36       |          |                 |  |                |              |              |          |              |              | ] |          | 86       |  |           |          |          |          |              |          |          |          |   |                        | 136        |          |          |           |          |          |     |          |          |   |
|       | 37       |          |                 |  |                |              |              |          |              |              | ] |          | 87       |  |           |          |          |          |              |          |          |          |   |                        | 137        |          |          |           |          |          |     |          |          |   |
|       | 38       | _        | Ш               | _  |                | 上            | ┖            | 丄        | $oxed{oxed}$ | L            | 1 |          | 88       |  |           |          |          |          |              |          |          |          |   |                        | 138        |          |          |           |          |          |     |          |          |   |
|       | 39       | L        |                 |  | L              | L            | L            | 丄        | _            | <u> </u>     |   |          | 89       | _  |           |          |          |          |              |          |          |          |   |                        | 139        |          |          |           |          |          |     |          |          |   |
|       | 40       | _        | Ш               |  | <u> </u>       | <u> </u>     | <u> </u>     |          | _            |              |   |          | 90       |  | Ш         |          | [        |          | [            |          | $\perp$  |          |   |                        | 140        |          | _[       |           | $\perp$  |          |     |          |          |   |
|       | 41       |          | Ш               | _  | ╙              | ╙            | ╙            | ـــ      | $\perp$      | Ш            |   |          | 91       | <u> </u>   | Ш         |          | _        | _        |              | _        |          |          |   |                        | 141        |          |          |           | $\perp$  | ┙        |     |          |          |   |
|       | 42       | <u> </u> | <u> </u>        | <u></u>  | <u> </u>       | <u> </u>     |              | 1        | 1            |              |   |          | 92       | <u> </u>   |           |          | _        | _        | _            | _        | _        | _        |   |                        | 142        | _        | _        | 4         | $\perp$  | _        |     | Ш        | $\dashv$ |   |
|       | 43       | <u> </u> | $\vdash$        |  | ├-             | <del> </del> | ₩            | ــــ     | ऻ            | <u> </u>     |   | $\vdash$ | 93       | _  | Ш         | _        | _        | _        | $\downarrow$ | _        | _        | $\dashv$ |   |                        | 143        | $\bot$   | $\dashv$ | _         | 4        | _        | _   |          | _        |   |
|       | 44       | <u> </u> | $\vdash \vdash$ | _  | $\vdash$       | <u> </u>     | <b>—</b>     | ₽-       | ـــ          |              |   |          | 94       | $\vdash$   | Ш         | _        | _        | _        | _            |          | _        |          |   |                        | 144        | $\bot$   | 4        | $\dashv$  | 4        | _        |     |          | _        |   |
|       | 45       | <u> </u> | $\sqcup$        |  | <b>L</b>       | ļ            | <b>L</b>     | ऻ        |              | $\sqcup$     |   | <u> </u> | 95       | ļ  | $\sqcup$  |          | _        | _        |              |          | _        |          |   | $oxed{oxed}$           | 145        | $\bot$   | _        | 4         | 4        | _        |     | Щ        | _        |   |
|       | 46       | <b> </b> | $\vdash$        |  | <del> </del>   | <b>!</b>     | <del> </del> | ╀        | ⊢            | Ш            |   |          | 96       | <u> </u>   | $\sqcup$  |          | _        |          | _            | _        | _        | _        |   | ├                      | 146        | 4        | 4        | 4         | 4        | _        | _   | Щ        | $\dashv$ |   |
|       | 47       | <u> </u> | $\vdash$        |  | ├              | ⊢            | ⊢            | -        | $\vdash$     | Н            |   |          | 97       | _  | $\square$ |          | _        | _        | _            | _        | _        | _        |   |                        | 147        | $\perp$  | +        | $\dashv$  | $\dashv$ | 4        | _   | <u> </u> |          |   |
|       | 48       |          | $\dashv$        | <u> </u>   | ├              | $\vdash$     | ⊢            | ⊢        | ├-           | Н            |   | $\vdash$ | 98       | _  | Н         | _        | -        | $\dashv$ | _            | -        | $\dashv$ |          |   | $\vdash \vdash \vdash$ | 148        | +        | +        | $\dashv$  | -        | 4        |     |          | 4        |   |
| _     | 49<br>50 | -        | -+              | _  | $\vdash$       | -            | -            | -        | $\vdash$     | $\vdash$     |   | <u> </u> | 99       | -  | $\dashv$  |          |          |          |              |          | -        | $\dashv$ |   |                        | 149        | +        | +        | $\dashv$  | +        | 4        | -   |          |          | _ |
|       | υŪ       |          |                 |  | <u></u>        | L            | l            | 1        | 1            |              |   | L        | 100      |  | i         |          |          |          |              |          | [        | - 1      |   | ı 1                    | 150        | - 1      | - 1      | - 1       | - 1      | - 1      | - 1 | 1        | - 1      |   |